

AMENDMENTS

Please amend the present application as follows:

In the Claims

The following is a copy of Applicants' claims that identifies language being added with underlining (" ") and language being deleted with strikethrough (""), as is applicable:

1. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum transmission over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: ~~approximately~~ -97.5 \pm 10% decibel-milliwatts per hertz (dBm/Hz) at ~~approximately~~ 0 \pm 10% kilohertz (kHz); ~~approximately~~ -97.5 \pm 10% dBm/Hz at ~~approximately~~ 4 \pm 10% kHz; ~~approximately~~ -92.5 \pm 10% dBm/Hz at ~~approximately~~ 4 \pm 10% kHz; ~~approximately~~ -36.5 \pm 10% dBm/Hz at ~~approximately~~ 25 \pm 10% kHz; ~~approximately~~ -36.5 \pm 10% dBm/Hz at ~~approximately~~ 1104 \pm 10% kHz; ~~approximately~~ -46.5 \pm 10% dBm/Hz at ~~approximately~~ 2208 \pm 10% kHz; ~~approximately~~ -101.5 \pm 10% dBm/Hz at ~~approximately~~ 3925 \pm 10% kHz; ~~approximately~~ -101.5 \pm 10% dBm/Hz at ~~approximately~~ 8500 \pm 10% kHz; ~~approximately~~ -103.5 \pm 10% dBm/Hz at ~~approximately~~ 8500 \pm 10% kHz; and ~~approximately~~ -103.5 \pm 10% dBm/Hz at ~~approximately~~ 11040 \pm 10% kHz.

2. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum transmission over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: approximately -97.5 $\pm 10\%$ decibel-milliwatts per hertz (dBm/Hz) at approximately 0 $\pm 10\%$ kilohertz (kHz); approximately -97.5 $\pm 10\%$ dBm/Hz at approximately 4 $\pm 10\%$ kHz; approximately -72.5 $\pm 10\%$ dBm/Hz at approximately 80 $\pm 10\%$ kHz; approximately -36.5 $\pm 10\%$ dBm/Hz at approximately 138 $\pm 10\%$ kHz; approximately -36.5 $\pm 10\%$ dBm/Hz at approximately 1104 $\pm 10\%$ kHz; approximately -46.5 $\pm 10\%$ dBm/Hz at approximately 2208 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 3925 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; and approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 11040 $\pm 10\%$ kHz.

3. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum transmission over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: approximately -97.5 $\pm 10\%$ decibel-milliwatts per hertz (dBm/Hz) at approximately 0 $\pm 10\%$ kilohertz (kHz); approximately -97.5 $\pm 10\%$ dBm/Hz at approximately 4 $\pm 10\%$ kHz; approximately -92.5 $\pm 10\%$ dBm/Hz at approximately 4 $\pm 10\%$ kHz; approximately -56.5 $\pm 10\%$ dBm/Hz at approximately 25 $\pm 10\%$ kHz; approximately -56.5 $\pm 10\%$ dBm/Hz at approximately 1104 $\pm 10\%$ kHz; approximately -46.5 $\pm 10\%$ dBm/Hz at approximately 2208 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 3925 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately

8500 $\pm 10\%$ kHz; approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; and approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 11040 $\pm 10\%$ kHz.

4. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum transmission over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: approximately -97.5 $\pm 10\%$ decibel-milliwatts per hertz (dBm/Hz) at approximately 0 $\pm 10\%$ kilohertz (kHz); approximately -97.5 $\pm 10\%$ dBm/Hz at approximately 4 $\pm 10\%$ kHz; approximately -92.5 $\pm 10\%$ dBm/Hz at approximately 80 kHz; approximately -56.5 $\pm 10\%$ dBm/Hz at approximately 138 $\pm 10\%$ kHz; approximately -56.5 $\pm 10\%$ dBm/Hz at approximately 1104 $\pm 10\%$ kHz; approximately -46.5 $\pm 10\%$ dBm/Hz at approximately 2208 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 3925 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; and approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 11040 $\pm 10\%$ kHz.

5. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum over an integrated digital services network (ISDN), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: approximately -90 $\pm 10\%$ decibel-milliwatts per hertz (dBm/Hz) at approximately 0 $\pm 10\%$ kilohertz (kHz); approximately -90 $\pm 10\%$ dBm/Hz at approximately 93.1 $\pm 10\%$ kHz; approximately -62 $\pm 10\%$ dBm/Hz at approximately 209 $\pm 10\%$ kHz; approximately -36.5 $\pm 10\%$ dBm/Hz at approximately 255 $\pm 10\%$ kHz; approximately -36.5 $\pm 10\%$ dBm/Hz at approximately 1104 $\pm 10\%$ kHz; approximately -

46.5 $\pm 10\%$ dBm/Hz at approximately 2208 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 3925 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; and approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 11040 $\pm 10\%$ kHz.

6. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum over an integrated digital services network (ISDN), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: approximately -90 $\pm 10\%$ decibel-milliwatts per hertz (dBm/Hz) at approximately 0 $\pm 10\%$ kilohertz (kHz); approximately -90 $\pm 10\%$ dBm/Hz at approximately 93.1 $\pm 10\%$ kHz; approximately -62 $\pm 10\%$ dBm/Hz at approximately 209 $\pm 10\%$ kHz; approximately -56.5 $\pm 10\%$ dBm/Hz at approximately 255 $\pm 10\%$ kHz; approximately -56.5 $\pm 10\%$ dBm/Hz at approximately 1104 $\pm 10\%$ kHz; approximately -46.5 $\pm 10\%$ dBm/Hz at approximately 2208 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 3925 $\pm 10\%$ kHz; approximately -101.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 8500 $\pm 10\%$ kHz; and approximately -103.5 $\pm 10\%$ dBm/Hz at approximately 11040 $\pm 10\%$ kHz.

7. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum transmission over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: $-97.5 \pm 5\%$ decibel-milliwatts per hertz (dBm/Hz) at $0 \pm 5\%$ kilohertz (kHz); $-97.5 \pm 5\%$ dBm/Hz at $4 \pm 5\%$ kHz; $-92.5 \pm 5\%$ dBm/Hz at $4 \pm 5\%$ kHz; $-36.5 \pm 5\%$ dBm/Hz at $25 \pm 5\%$ kHz; $-36.5 \pm 5\%$ dBm/Hz at $1104 \pm 5\%$ kHz; $-46.5 \pm 5\%$ dBm/Hz at $2208 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $3925 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; $-103.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; and $-103.5 \pm 5\%$ dBm/Hz at $11040 \pm 5\%$ kHz.

8. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) non-overlap spectrum over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: $-97.5 \pm 5\%$ decibel-milliwatts per hertz (dBm/Hz) at $0 \pm 5\%$ kilohertz (kHz); $-97.5 \pm 5\%$ dBm/Hz at $4 \pm 5\%$ kHz; $-72.5 \pm 5\%$ dBm/Hz at $80 \pm 5\%$ kHz; $-36.5 \pm 5\%$ dBm/Hz at $138 \pm 5\%$ kHz; $-36.5 \pm 5\%$ dBm/Hz at $1104 \pm 5\%$ kHz; $-46.5 \pm 5\%$ dBm/Hz at $2208 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $3925 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; $-103.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; and $-103.5 \pm 5\%$ dBm/Hz at $11040 \pm 5\%$ kHz.

9. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: $-97.5 \pm 5\%$ decibel-milliwatts per hertz (dBm/Hz) at $0 \pm 5\%$ kilohertz (kHz); $-97.5 \pm 5\%$ dBm/Hz at $4 \pm 5\%$ kHz; $-92.5 \pm 5\%$ dBm/Hz at $4 \pm 5\%$ kHz; $-56.5 \pm 5\%$ dBm/Hz at $25 \pm 5\%$ kHz; $-56.5 \pm 5\%$ dBm/Hz at $1104 \pm 5\%$ kHz; $-46.5 \pm 5\%$ dBm/Hz at $2208 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $3925 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; $-103.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; and $-103.5 \pm 5\%$ dBm/Hz at $11040 \pm 5\%$ kHz.

10. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) non-overlap spectrum over a plain old telephone system (POTS), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: $-97.5 \pm 5\%$ decibel-~~milliwatts~~-milliwatts per hertz (dBm/Hz) at $0 \pm 5\%$ kilohertz (kHz); $-97.5 \pm 5\%$ dBm/Hz at $4 \pm 5\%$ kHz; $-92.5 \pm 5\%$ dBm/Hz at $80 \pm 5\%$ kHz; $-56.5 \pm 5\%$ dBm/Hz at $138 \pm 5\%$ kHz; $-56.5 \pm 5\%$ dBm/Hz at $1104 \pm 5\%$ kHz; $-46.5 \pm 5\%$ dBm/Hz at $2208 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $3925 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; $-103.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; and $-103.5 \pm 5\%$ dBm/Hz at $11040 \pm 5\%$ kHz.

11. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum over an integrated digital services network (ISDN), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: $-90 \pm 5\%$ decibel-milliwatts per hertz (dBm/Hz) at $0 \pm 5\%$ kilohertz (kHz); $-90 \pm 5\%$ dBm/Hz at $93.1 \pm 5\%$ kHz; $-62 \pm 5\%$ dBm/Hz at $209 \pm 5\%$ kHz; $-36.5 \pm 5\%$ dBm/Hz at $255 \pm 5\%$ kHz; $-36.5 \pm 5\%$ dBm/Hz at $1104 \pm 5\%$ kHz; $-46.5 \pm 5\%$ dBm/Hz at $2208 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $3925 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; $-103.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; and $-103.5 \pm 5\%$ dBm/Hz at $11040 \pm 5\%$ kHz.

12. (Currently Amended) A semiconductor and logic comprising a power spectral density (PSD) mask for spectral shaping of an asynchronous digital subscriber line (ADSL) overlap spectrum over an integrated digital services network (ISDN), the PSD mask represented at least in part by a plurality of break points, the plurality of break points including: $-90 \pm 5\%$ decibel-milliwatts per hertz (dBm/Hz) at $0 \pm 5\%$ kilohertz (kHz); $-90 \pm 5\%$ dBm/Hz at $93.1 \pm 5\%$ kHz; $-62 \pm 5\%$ dBm/Hz at $209 \pm 5\%$ kHz; $-56.5 \pm 5\%$ dBm/Hz at $255 \pm 5\%$ kHz; $-56.5 \pm 5\%$ dBm/Hz at $1104 \pm 5\%$ kHz; $-46.5 \pm 5\%$ dBm/Hz at $2208 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $3925 \pm 5\%$ kHz; $-101.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; $-103.5 \pm 5\%$ dBm/Hz at $8500 \pm 5\%$ kHz; and $-103.5 \pm 5\%$ dBm/Hz at $11040 \pm 5\%$ kHz.